



500Mbps Powerline Ethernet Adapter

HP-5001
User Manual

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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more information about this product, please refer to the user manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our website www.edimax.com for updates. All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

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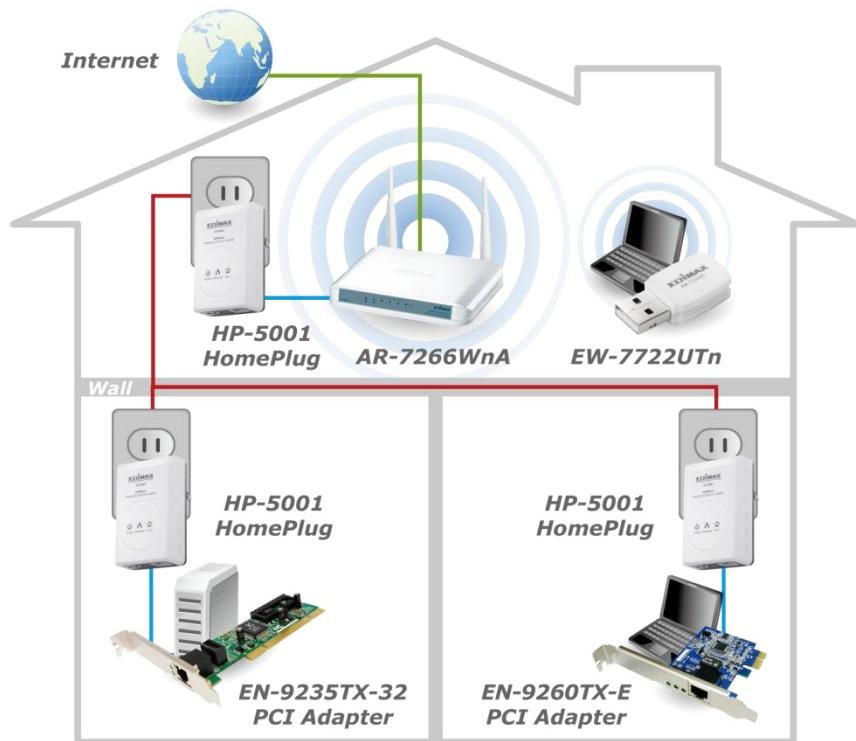
Chapter 1: Introduction

1.1 Product Features

- Data rates up to 500Mbps
- Transmits network data via existing electrical wires (no external cabling required)
- Easy plug-and-play setup
- Works with routers, computers, and other network devices
- Consumes less than 1W of power in power saving mode

1.2 Application

- High-definition (HD) and standard-definition (SD) video distribution
- Broadband Internet sharing
- Internet Protocol Television (IPTV) and Voice over Internet Protocol (VoIP) applications



1.3 Compatibility

200Mbps and 500Mbps powerline devices (HomePlug AV standard) are incompatible and cannot be used with 14Mbps and 85Mbps powerline devices (HomePlug 1.0 and 1.1 standards).

1.4 System Requirements

Operating System	Utility can support Windows 2000/XP/Vista/7
CPU	Intel Pentium III 2.0GHz (or higher)
RAM	128MB (at least)
Free Disk Space	20MB (at least)
Network Interface	Fast Ethernet (100Mbps) network interface and an Ethernet cable

Chapter 2: Adapter



2.1 Ethernet Port

You can connect the HP-5001 to a router, a computer, or any network device via this Ethernet port.

2.2 Buttons

Reset	Press and hold the reset button for 3 seconds to restore the powerline adapter to factory defaults.
Security (Group)	Press and hold the “Security (Group)” button for more than 10 seconds to randomize the adapter’s NMK value; or press and hold the “Security (Group)” button for 3 seconds to add the powerline adapter to the existing AV logical network (AVLN).

2.3 LEDs

Ethernet Port	Green	On	Ethernet connection established
		Flashing	Network activity
		Off	No Ethernet connection
Power	Green	On	Powered on
		Flashing	<ul style="list-style-type: none"> ● In power saving mode ● Device resetting ● Synchronizing password
		Off	Powered off
PLC	Green/ Orange/ Red	On	Green: PHY RATE > 80Mbps Orange: 40Mbps < PHY RATE < 80Mbps Red: PHY RATE < 40Mbps
		Off	Not in a powerline network

Chapter 3: Utility Software Installation

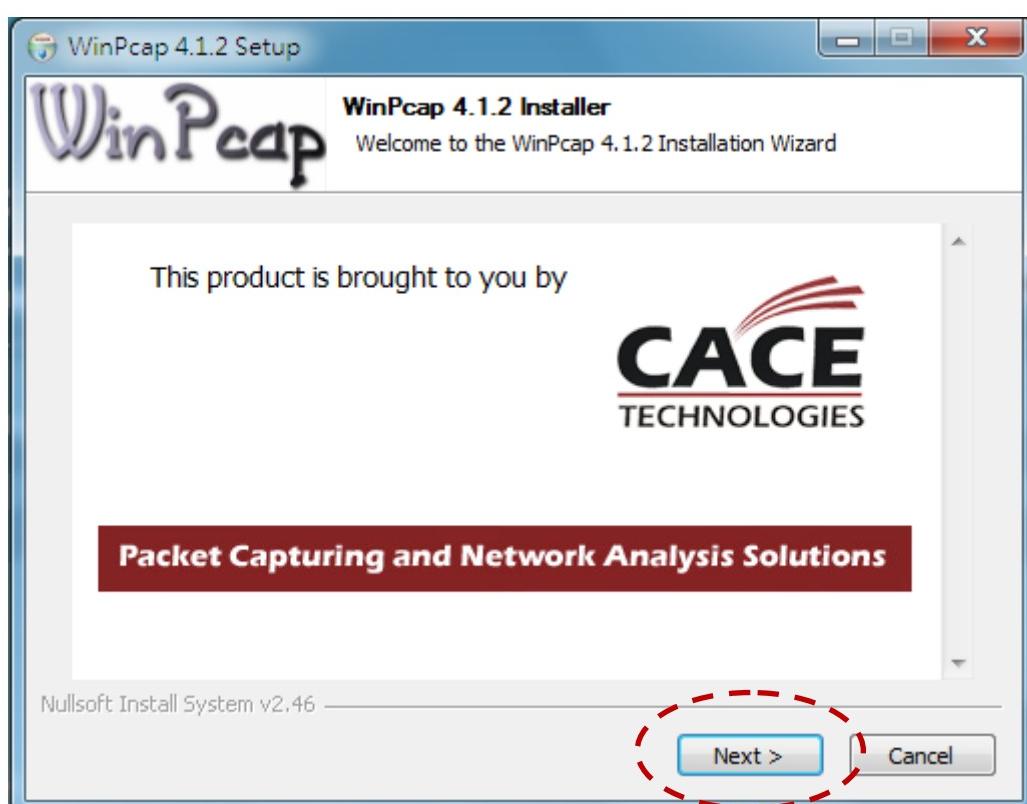
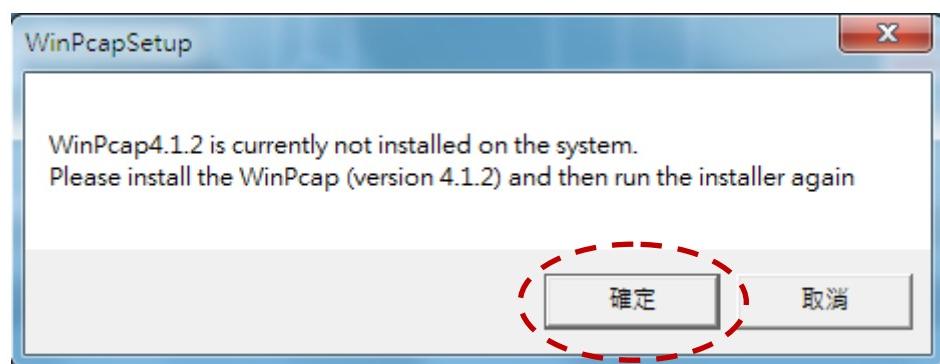
- Step 1** Before installing the utility software, make sure that no other powerline utility is installed on your computer. If any other utility software is installed, uninstall it and reboot the computer.
- Step 2** Insert the CD into your CD-ROM drive. When the following image appears, click “500Mbps Device”.

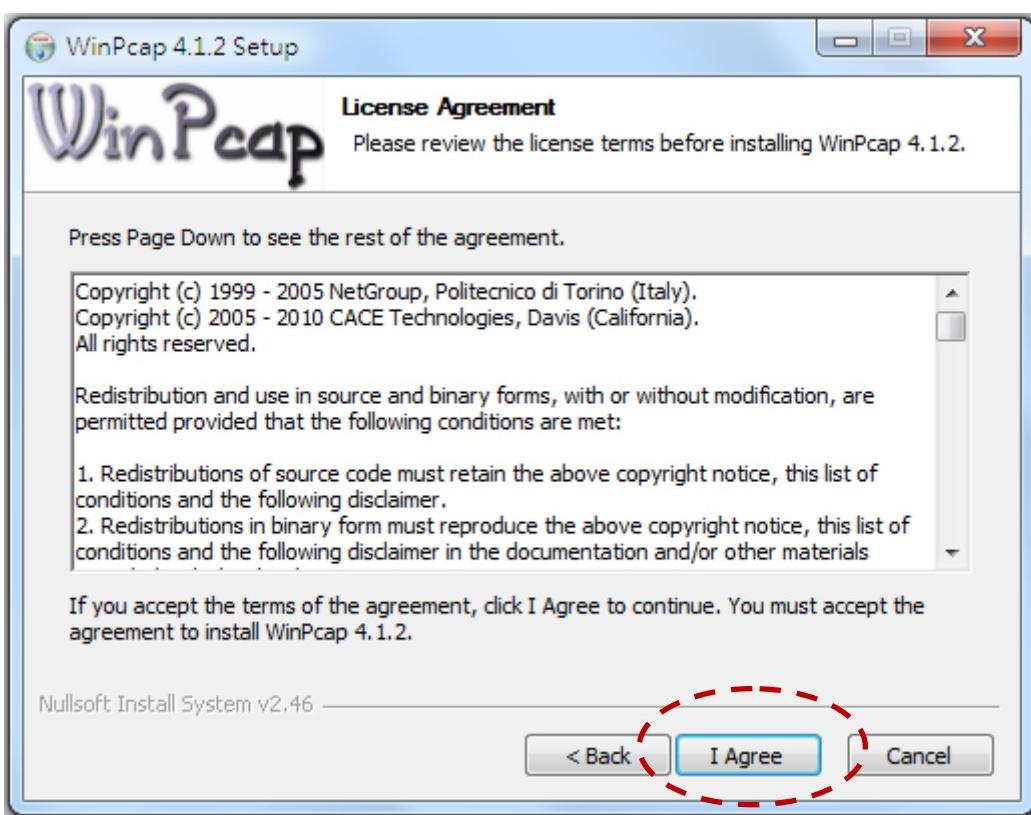
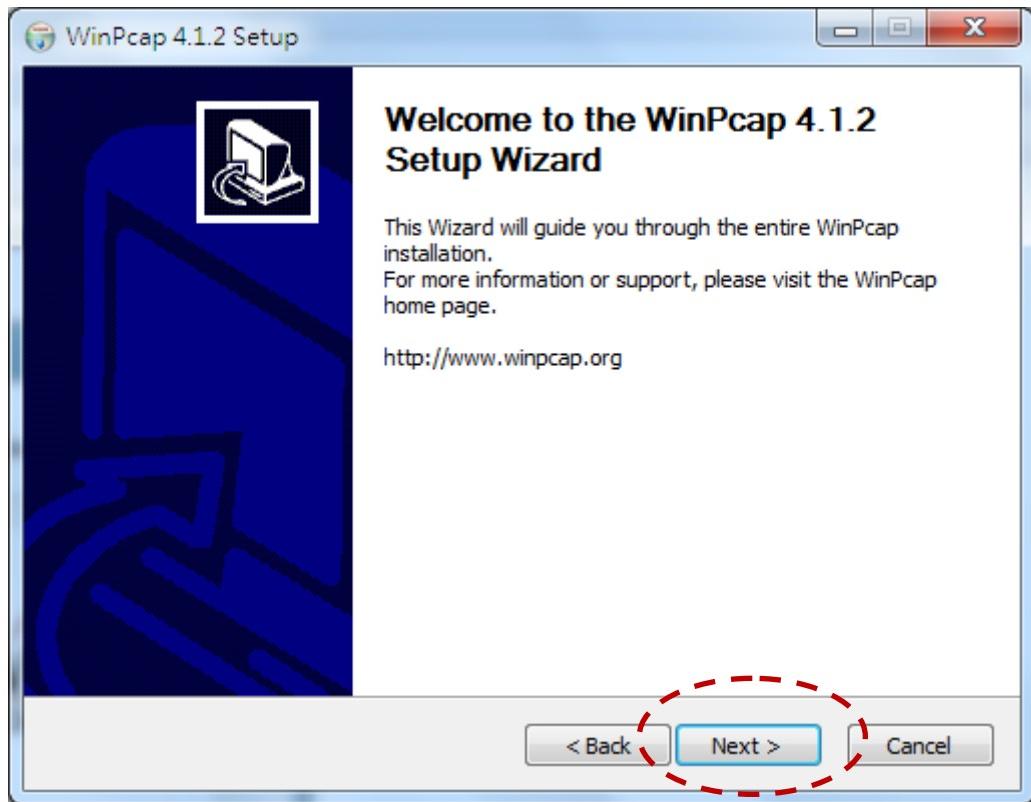


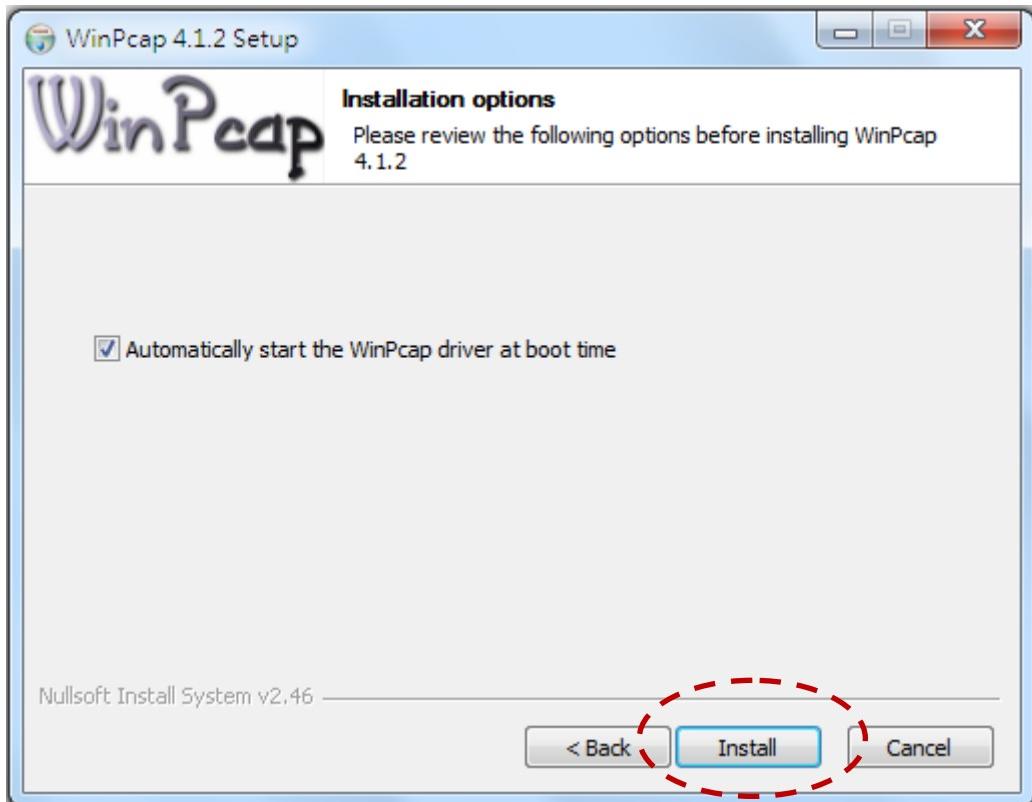
- Step 3** Then click “Setup Utility”.



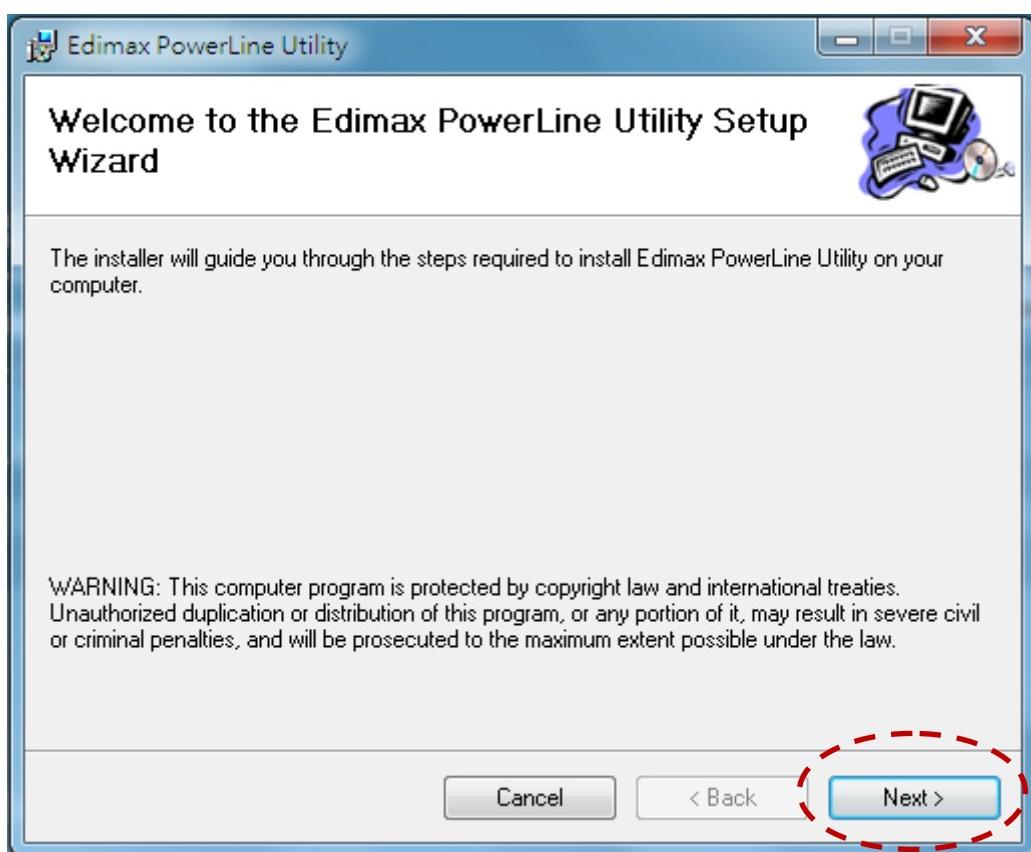
Note : You will get the following image, if your computer did not install WinPcap4.1.2 before. Please click “Apply” to install WinPcap4.1.2.



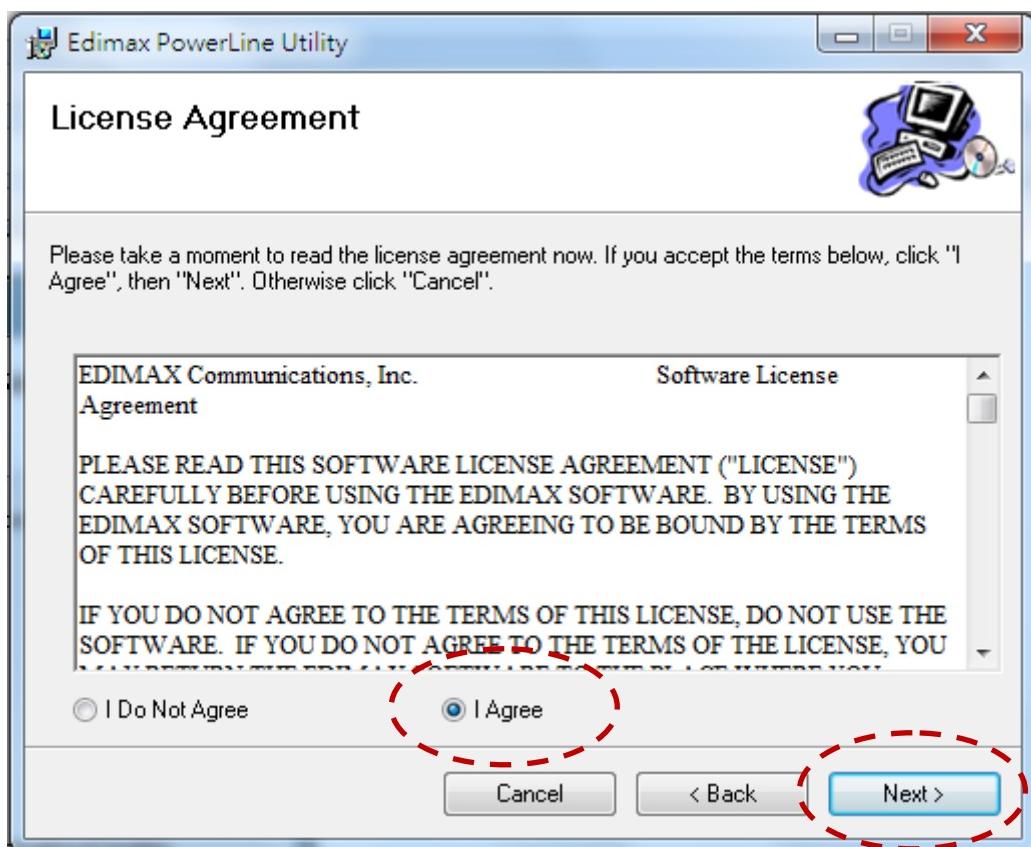


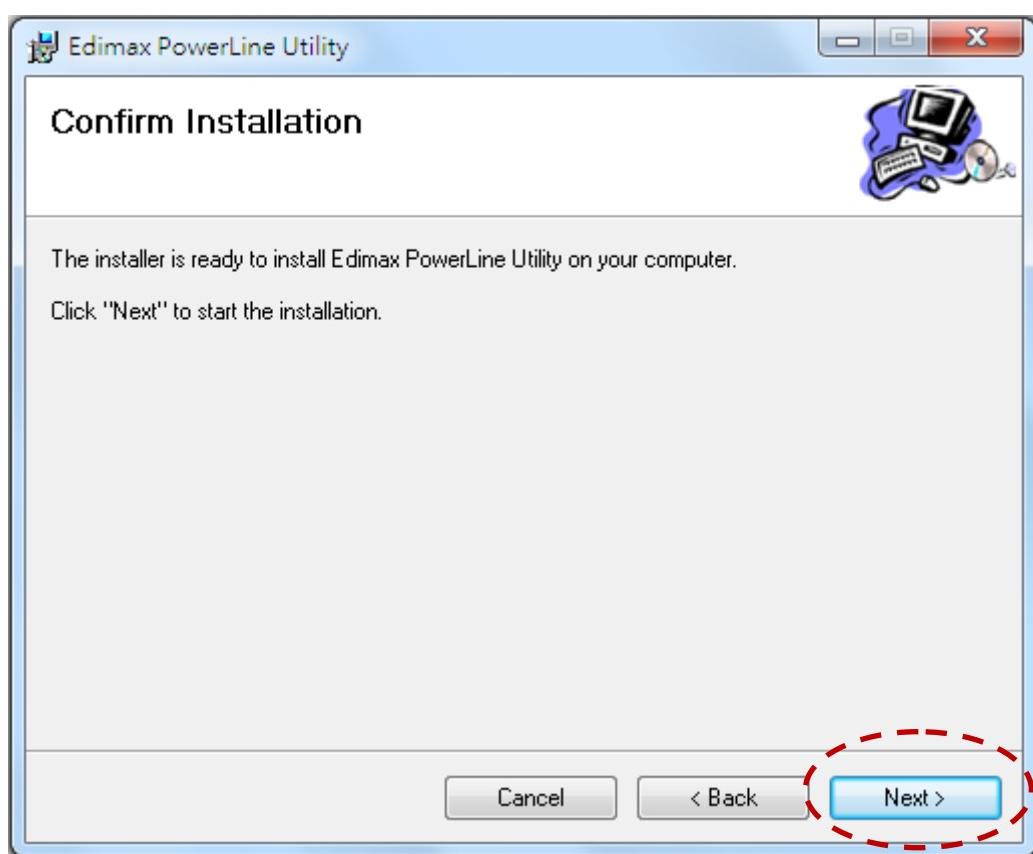
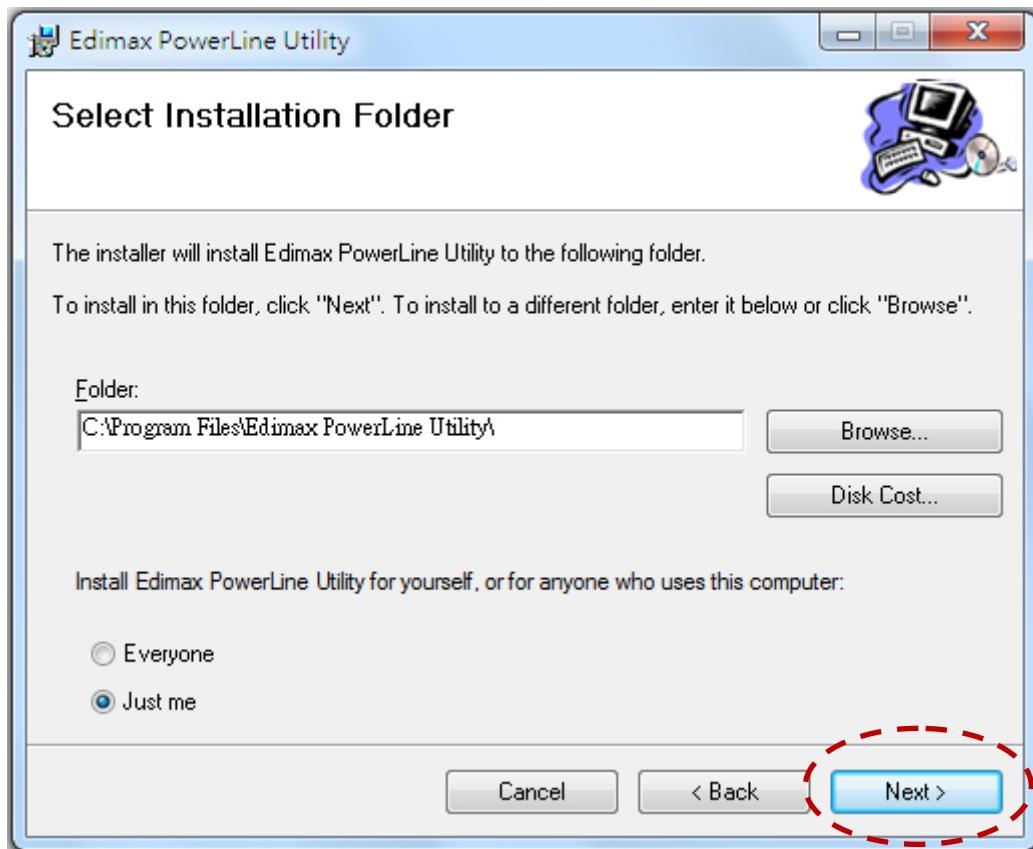


Step 4 When the setup wizard appears, click “Next” to continue.

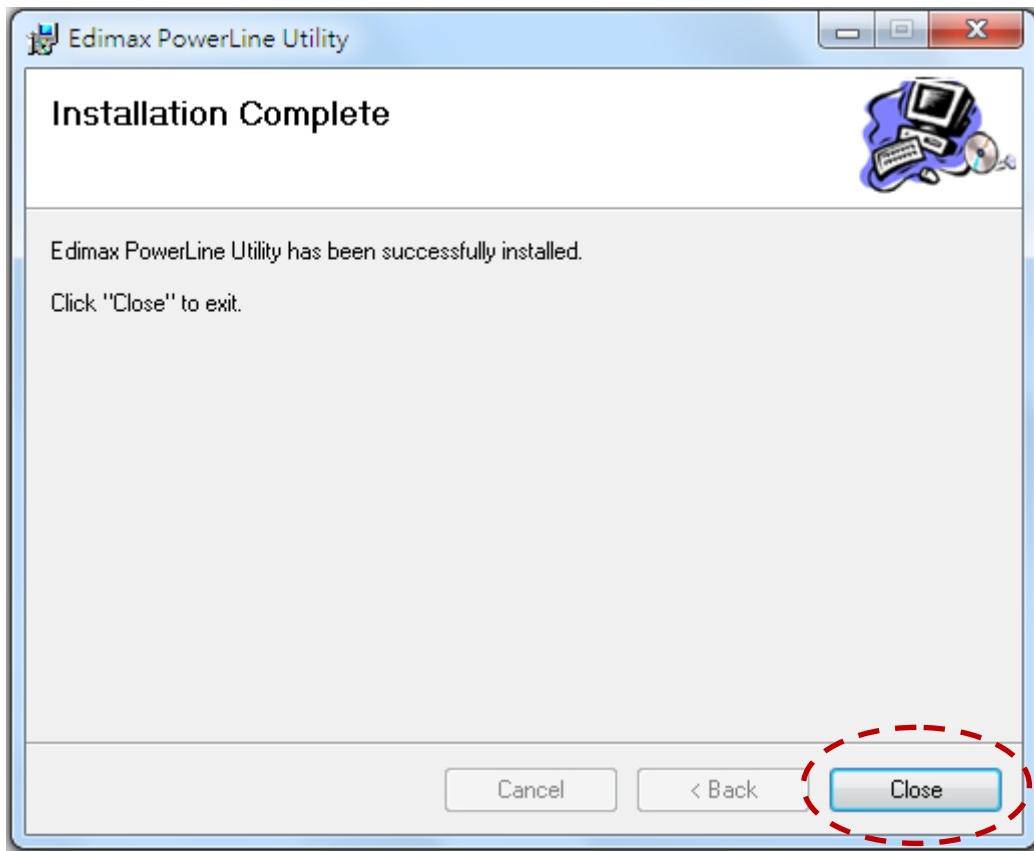


Step 5 Select where you want to install the utility software, and then click “Next”.





Step 6 After the installation is complete, click “Close”.



Step 7 An icon will appear on your desktop. Click the icon to open the utility software.

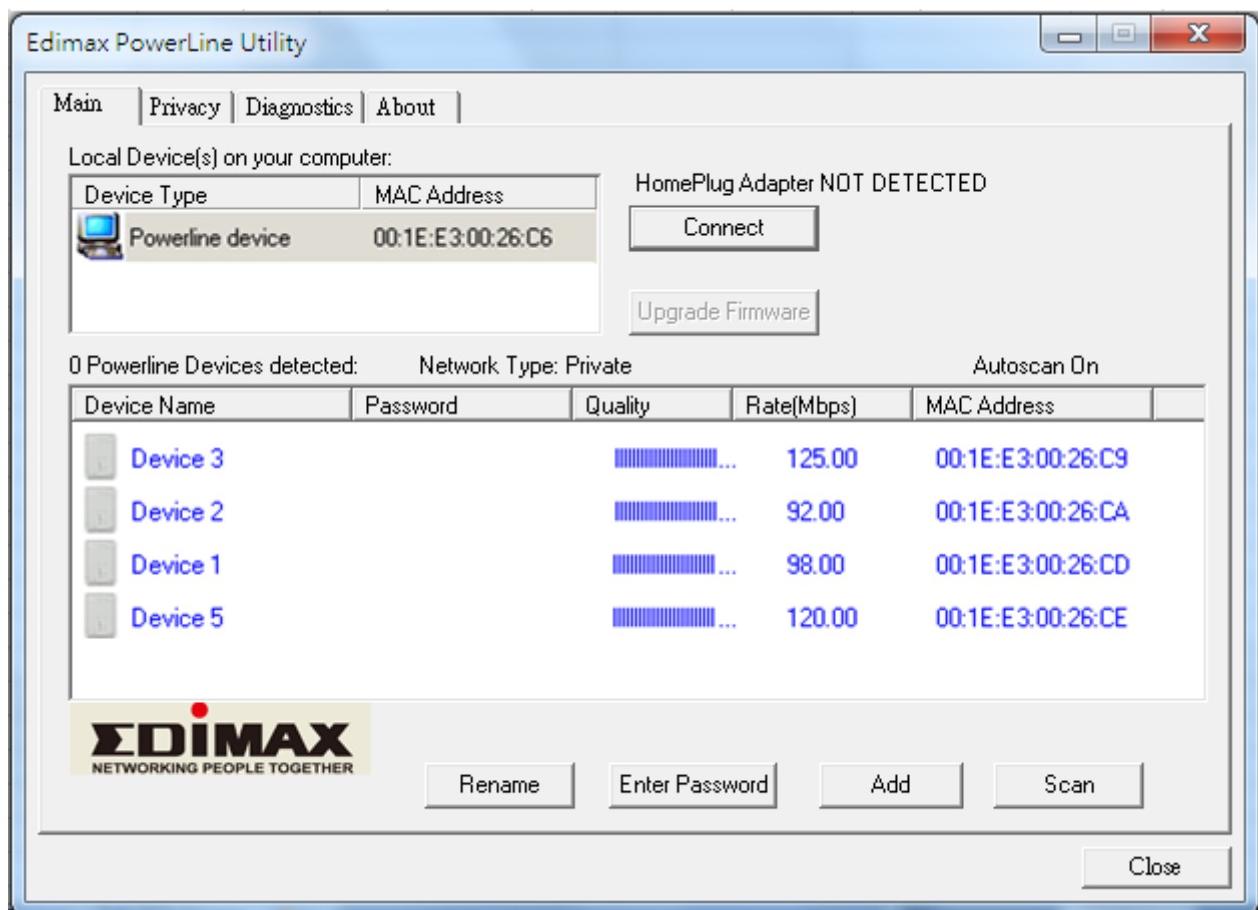


Note: You can manage all the connected powerline adapters with the utility software. However, installing the utility software is optional.

Chapter 4: Using the Utility Software

4.1 Main Tab

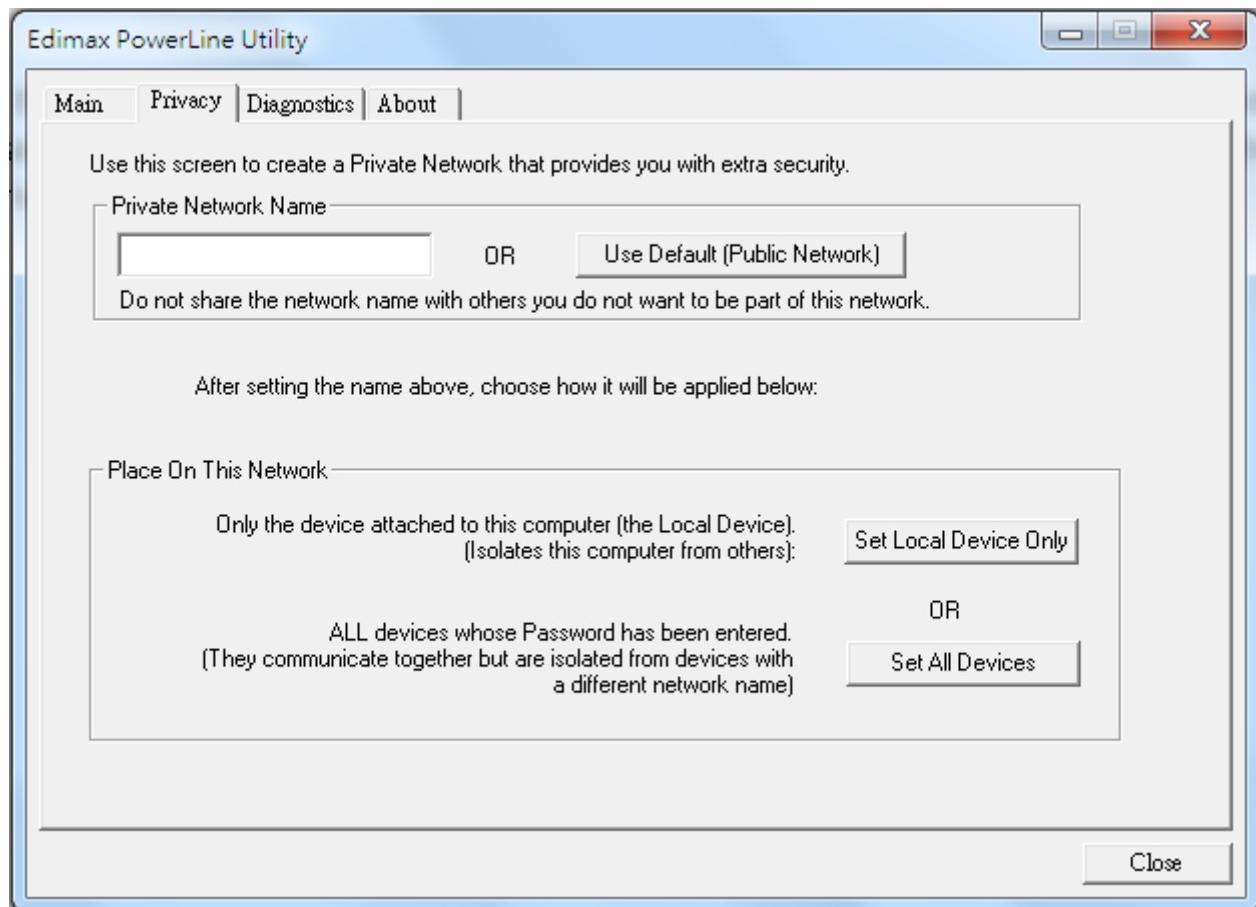
The “Main” tab provides a list of powerline adapters connected to the computer. The upper panel displays local powerline adapters. The lower panel displays remote powerline adapters in the network.



Connect	Click “Connect” and the utility software will scan for other local powerline adapters.
Rename	Select a device and click “Rename” to rename the device.
Enter Password	By default, this column is blank. Select a device and click “Enter Password” to set up a password for the device.
Add	This button is used to add a remote powerline adapter to the existing network.
Scan	Click “Scan” and the utility software will perform an immediate scan of other remote powerline adapters. By default, the utility automatically scans every few seconds.

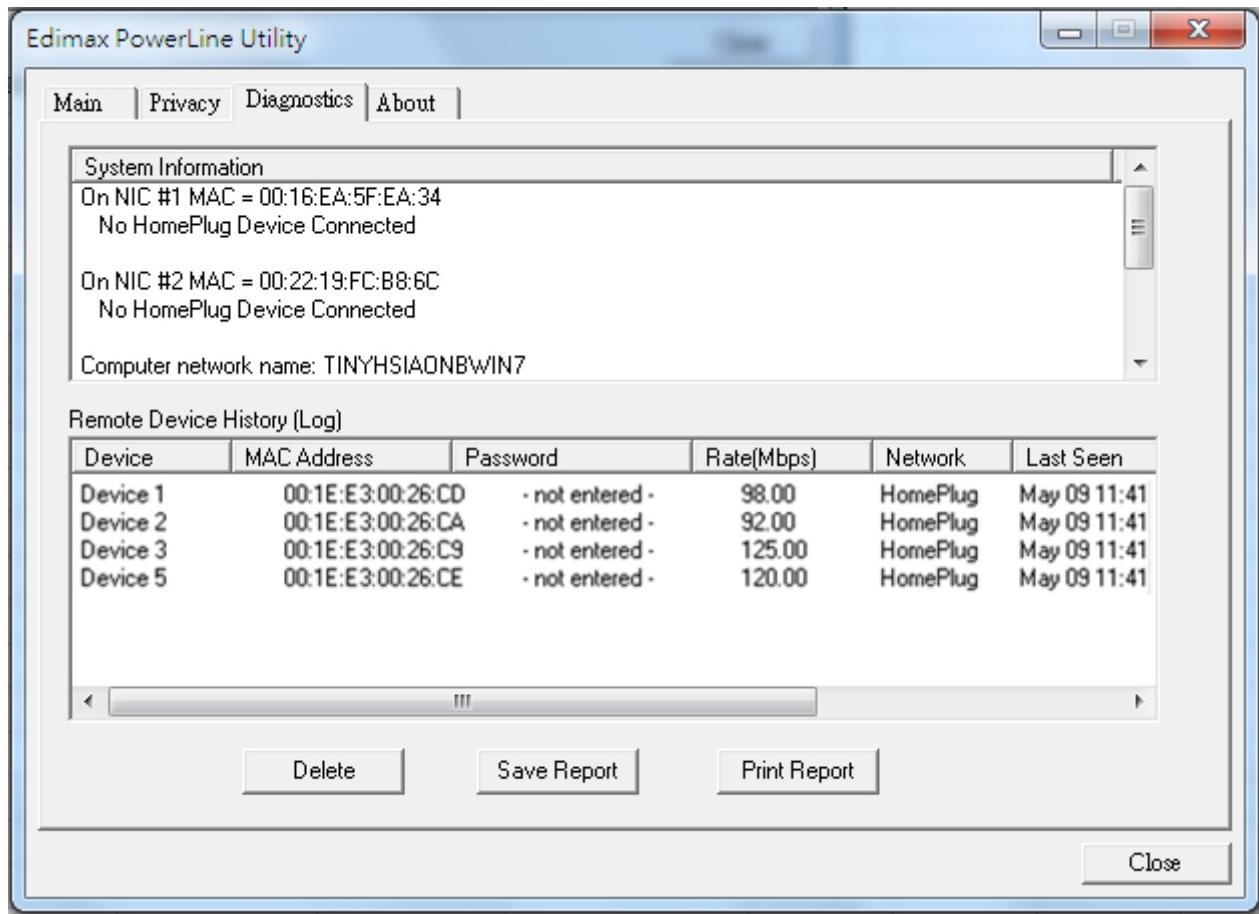
4.2 Privacy Tab

In the “Privacy” tab, you can create a private network by changing the default network name and configure its security settings. If the network name is modified to anything other than the default, the network type in the “Main” tab will be changed to “Private”.



Set Local Device Only	This button is used to change the network name and password of the local device.
Set All Devices	This button is used to change the logical network of all devices that appear in the “Main” tab.

4.3 Diagnostics Tab

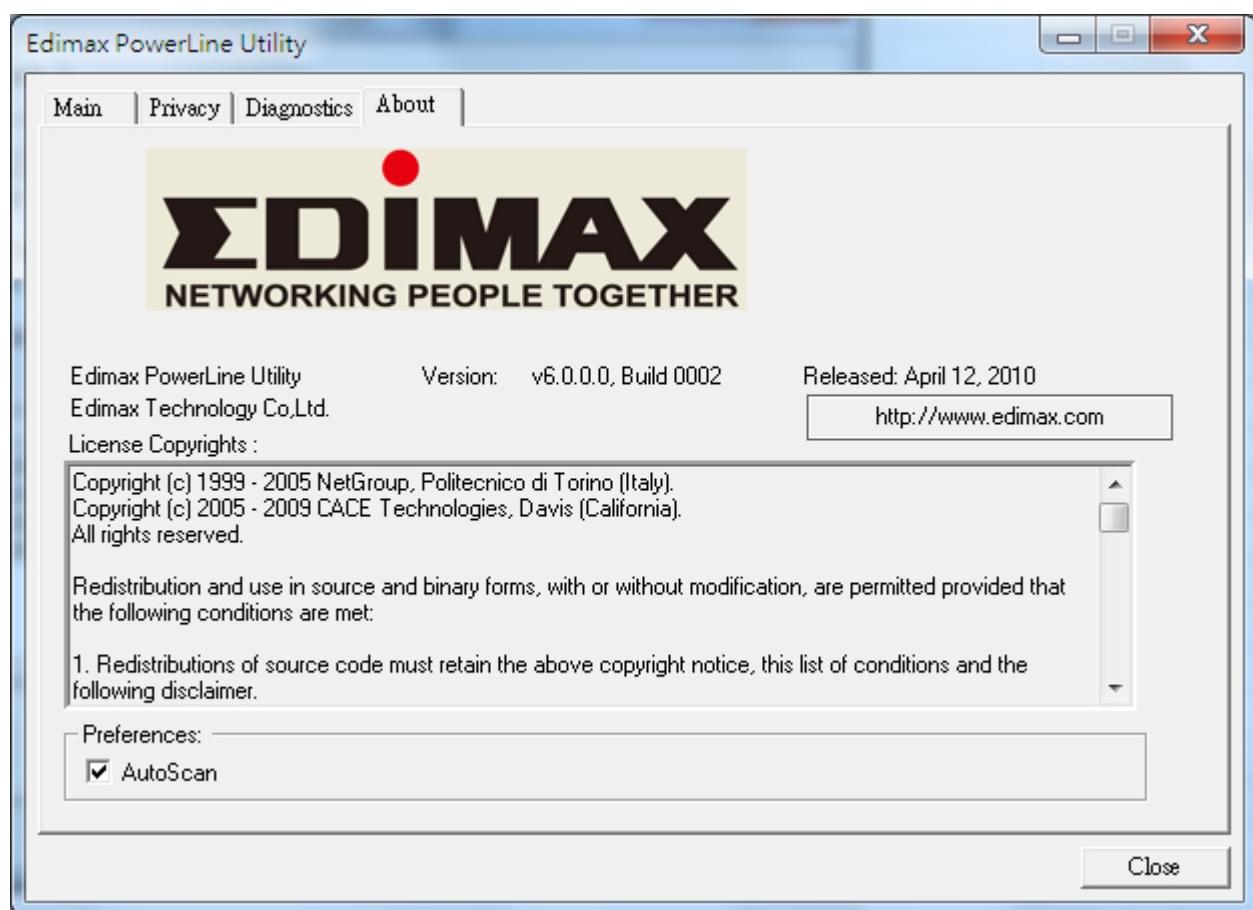


The “Diagnostics” tab displays the system information and history of all remote devices.

The upper panel displays technical data concerning the software and hardware on the host computer and the lower panel displays the history of all remote devices.

4.4 About Tab

The “About” tab contains some basic information about the software. You can also enable or disable the autoscan function under “Preferences”.



Chapter 5: Security Button

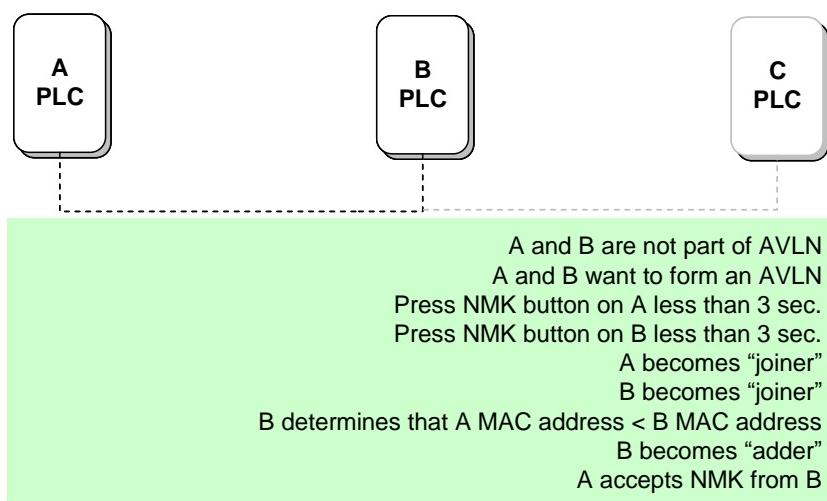
This section demonstrates how to add or remove devices from a HomePlug AVLN with the “Security (Group)” button. The “Power” LED indicates the operation status and result.

5.1 Forming a HomePlug AV Logical Network

When two devices with different NMK values are connected to the same powerline and you want them to form a logical network, follow the following procedures:

- Step 1** Press the “Security (Group)” button on device A for less than 3 seconds.
- Step 2** Press the “Security (Group)” button on device B for less than 3 seconds. This should be done within 1 minute.
- Step 3** Wait for the connection to complete.

The “Power” LED on both devices will blink evenly at 1-second intervals until the operation succeeds or fails. If the connection succeeds, it will illuminate steadily. If an error occurs, the power LED on the adder will blink unevenly until the “Security” button on the adder is pressed again or the joiner is reset.



5.2 Joining a Network

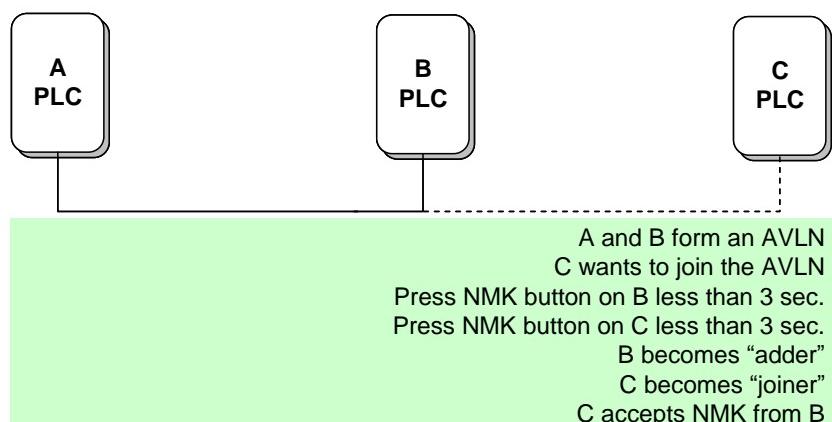
If you want to add a new device to an existing network, follow the following procedures:

- Step 1** Press the “Security” button on the new device for at least 3 seconds.

Step 2 Press the “Security” button on any device in the network for less than 3 seconds. This should be done within 1 minute.

Step 3 Wait for the connection to complete.

The “Power” LED on both devices will blink evenly at 1-second intervals until the operation succeeds or fails. If the connection succeeds, it will illuminate steadily. If an error occurs, the power LED on the adder will blink unevenly until the “Security” button on the adder is pressed again or the joiner is reset.



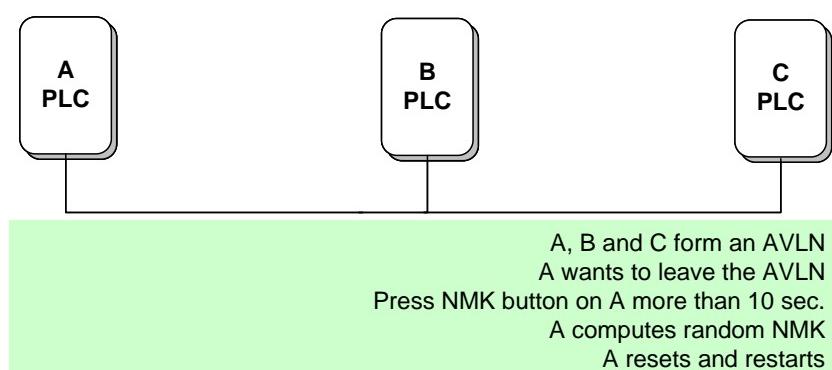
5.3 Leaving a Network

If you want to remove a device from an existing network, follow the following procedures:

Step 1 Press the “Security” button on the device to be removed for at least 10 seconds.

Step 2 Wait for the device to reset.

The “Power” LED on the device to be removed will momentarily extinguish. It will start to blink after it has restarted. Then it will illuminate steadily if no error occurs. You can then disconnect the device.



Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 2.5cm (1 inch) during normal operation.

Federal Communications Commission (FCC) RF Exposure Requirements

SAR compliance has been established in the laptop computer(s) configurations with PCMCIA slot on the side near the center, as tested in the application for certification, and can be used in laptop computer(s) with substantially similar physical dimensions, construction, and electrical and RF characteristics. Use in other devices such as PDAs or lap pads is not authorized. This transmitter is restricted for use with the specific antenna tested in the application for certification. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None



A dark grey rectangular background is filled with various white line-art icons. These icons include a handshake, a musical note, a smiling face, a gear, a person's eye, a person's hand, a game controller, a leaf, a puzzle piece, a computer monitor, and a briefcase. In the center of this background, the company name and website are displayed.

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